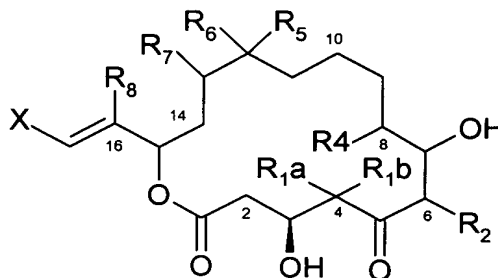


This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended) An epothilone compound of formula I,



in which

R⁴ means hydrogen, C₁-C₁₀ alkyl, aryl, C₇-C₂₀ aralkyl,

R⁵ means hydrogen, C₁-C₁₀ alkyl, aryl, C₇-C₂₀ aralkyl,

wherein, for R⁴ and R⁵, aryl is phenyl, wherein said phenyl is optionally substituted in one or more places by halogen, OH, O-alkyl, CO₂H, CO₂-alkyl, -NH₂, -NO₂, -N₃, -CN, C₁-C₂₀ alkyl, C₁-C₂₀ acyl and/or C₁-C₂₀ acyloxy groups, and

wherein, for R⁴ and R⁵, aralkyl is benzyl[[5]] or phenylethyl, wherein said benzyl[[5]] or phenylethyl is optionally substituted in one or more places by halogen, OH, O-alkyl, CO₂H, CO₂-alkyl, -NO₂, -N₃, -CN, C₁-C₂₀ alkyl, C₁-C₂₀ acyl and/or C₁-C₂₀ acyloxy groups,

R⁶, R⁷ each mean a hydrogen atom, or together mean an additional bond to result in a double bond on the ring between their two positions or together mean an oxygen atom to provide an epoxide ring,

R⁸ means a methyl group or hydrogen,

and at the same time, R^{1a} and R^{1b} together stand for a trimethylene group, R² stands for a phenyl or benzyl radical, and X stands for a 2-pyridyl, 2-methyl-4-thiazolyl or 2-methyl-4-oxazolyl radical or

at the same time R^{1a} and R^{1b} together stand for a trimethylene group, R^2 stands for a methyl, ethyl or propyl group and X stands for a ~~2-pyridyl~~, 2-methyl-4-thiazolyl or 2-methyl-4-oxazolyl radical or

at the same time R^{1a} and R^{1b} in each case stand for a methyl group, R^2 stands for a methyl, ethyl or propyl radical, and X stands for a ~~2-pyridyl~~, 2-methyl-4-thiazolyl or 2-methyl-4-oxazolyl radical,

~~whereby~~ wherein the nitrogen atom and/or the sulfur atom in X can be present in oxidized form, and ~~whereby~~

wherein, if R^2 and R^8 each are simultaneously not in each case mean a methyl radical,
~~X can be only one 2-pyridyl radical that is optionally oxidized on the nitrogen atom,~~
or a stereoisomer thereof.

2. (Previously presented) A compound according to claim 1, in which R^8 is a hydrogen atom.

3. (Previously presented) A compound according to claim 1, in which R^8 is a methyl group.

4. (Previously presented) A compound according to claim 1, in which R^2 is an ethyl group.

5. (Previously presented) A compound according to claim 1, in which R^2 is a propyl group.

6-16. (Cancelled)

17. (Currently amended) A compound according to claim 2, in which R^2 is a propyl group.

18. (Previously presented) A compound according to claim 1, in which R^5 is a methyl group.

19. (Cancelled)

20. (Currently amended) A compound of formula I of claim 1, which is:

(4S,7R,8S,9S,13(E or Z),16S(E))-4,8-Dihydroxy-16-(2-(2-methyl-4-thiazolyl)ethenyl)-1-oxa-5,5,7,9,13-pentamethyl-cyclohexadec-13-ene-2,6-dione,
(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8,10,12,16-pentamethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,
(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8,10,12,16-pentamethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,
(4S,7R,8S,9S,13(E or Z),16S(E))-4,8-Dihydroxy-7-ethyl-16-(2-(2-methyl-4-thiazolyl)ethenyl)-1-oxa-5,5,9,13-tetramethyl-cyclohexadec-13-ene-2,6-dione,
(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-10-ethyl-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,
(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-10-ethyl-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,

~~(4S,7R,8S,9S,13(E or Z),16S(E)) 4,8-Dihydroxy-16-(1-methyl-2-(2-pyridyl)ethenyl)-1-oxa-5,5-(1,3-trimethylene)-7,9,13-trimethyl-cyclohexadec-13-ene-2,6-dione,~~
~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8-(1,3-trimethylene)-10,12,16-trimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~
~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8-(1,3-trimethylene)-10,12,16-trimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~
~~(4S,7R,8S,9S,13(E or Z),16S(E))-4,8-Dihydroxy-16-(2-(2-methyl-4-thiazolyl)ethenyl)-1-oxa-5,5-(1,3-trimethylene)-7,9,13-trimethyl-cyclohexadec-13-ene-2,6-dione,~~
~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8-(1,3-trimethylene)-10,12,16-trimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~
~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8-(1,3-trimethylene)-10,12,16-trimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~
~~(4S,7R,8S,9S,13(E or Z),16S(E)) 4,8-Dihydroxy-16-(2-(2-pyridyl)ethenyl)-1-oxa-5,5,7,9,13-pentamethyl-cyclohexadec-13-ene-2,6-dione,~~
~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-3-(2-(2-pyridyl)ethenyl)-8,8,10,12,16-pentamethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~
~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-3-(2-(2-pyridyl)ethenyl)-8,8,10,12,16-pentamethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~
~~(4S,7R,8S,9S,13(E or Z),16S(E)) 4,8-Dihydroxy-7-ethyl-16-(1-methyl-2-(2-pyridyl)ethenyl)-1-oxa-5,5-(1,3-trimethylene)-9,13-dimethyl-cyclohexadec-13-ene-2,6-dione,~~

~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-10-ethyl-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8-(1,3-trimethylene)-12,16-dimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-10-ethyl-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8-(1,3-trimethylene)-12,16-dimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(4S,7R,8S,9S,13(E or Z),16S(E))-4,8-Dihydroxy-7-ethyl-16-(2-(2-methyl-4-thiazolyl)ethenyl)-1-oxa-5,5-(1,3-trimethylene)-9,13-dimethyl-cyclohexadec-13-ene-2,6-dione,~~

~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-10-ethyl-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8-(1,3-trimethylene)-12,16-dimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione, or~~

~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-10-ethyl-3-(2-(2-methyl-4-thiazolyl)ethenyl)-8,8-(1,3-trimethylene)-12,16-dimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione;~~

~~(4S,7R,8S,9S,13(E or Z),16S(E))-4,8-Dihydroxy-7-ethyl-16-(2-(2-pyridyl)ethenyl)-1-oxa-5,5,9,13-tetramethyl-cyclohexadec-13-ene-2,6-dione,~~

~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-10-ethyl-3-(2-(2-pyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-10-ethyl-3-(2-(2-pyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(4S,7R,8S,9S,13(E or Z),16S(E))-4,8-Dihydroxy-7-ethyl-16-(2-(2-pyridyl)ethenyl)-1-oxa-5,5-(1,3-trimethylene)-9,13-dimethyl-cyclohexadec-13-ene-2,6-dione,~~

~~(1(S or R),3S(E),7S,10R,11S,12S,16R)-7,11-Dihydroxy-10-ethyl-3-(2-(2-pyridyl)ethenyl)-8,8-(1,3-trimethylene)-12,16-dimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1(R or S),3S(E),7S,10R,11S,12S,16S)-7,11-Dihydroxy-10-ethyl-3-(2-(2-pyridyl)ethenyl)-8,8-(1,3-trimethylene)-12,16-dimethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(4S,7R,8S,9S,13Z,16S(E))-4,8-Dihydroxy-16-(1-methyl-2-(2-pyridyl)ethenyl)-1-oxa-7-propyl-5,5,9,13-tetramethyl-cyclohexadec-13-ene-2,6-dione,~~

~~(1S,3S(E),7S,10R,11S,12S,16R)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-N-oxidopyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1R,3S(E),7S,10R,11S,12S,16S)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-N-oxidopyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1S,3S(E),7S,10R,11S,12S,16R)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1R,3S(E),7S,10R,11S,12S,16S)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadecane-5,9-dione,~~

~~(4S,7R,8S,9S,13E,16S(E))-4,8-Dihydroxy-16-(1-methyl-2-(2-pyridyl)ethenyl)-1-oxa-7-propyl-5,5,9,13-tetramethyl-cyclohexadec-13-ene-2,6-dione,~~

~~(1R,3S(E),7S,10R,11S,12S,16R)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-N-oxidopyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1S,3S(E),7S,10R,11S,12S,16S)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-N-oxidopyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione,~~

~~(1R,3S(E),7S,10R,11S,12S,16R)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione, or~~

~~(1S,3S(E),7S,10R,11S,12S,16S)-10-Propyl-7,11-dihydroxy-3-(1-methyl-2-(2-pyridyl)ethenyl)-8,8,12,16-tetramethyl-4,17-dioxabicyclo[14.1.0]heptadeca-5,9-dione.~~

21. (Currently amended) A pharmaceutical composition comprising at least one compound of formula I according to claim 1 and ~~above as well as~~ a pharmaceutically compatible vehicle.

22. (Canceled)

23. (Previously presented) A method for preparing a pharmaceutical composition comprising bringing together a pharmaceutically acceptable carrier and agent ~~which comprises formulating~~ a compound of formula I according to claim 1 ~~in a form suitable for pharmaceutical administration.~~

24. (New) A pharmaceutical composition comprising a compound of claim 20 and a pharmaceutically compatible vehicle.

25. (New) A compound according to claim 1, in which X is 2-methyl-4-thiazolyl.

26. (New) A compound according to claim 1, in which X is 2-methyl-4-oxazolyl radical.

27. (New) A compound according to claim 1, in which R^{1a} and R^{1b} in each case stand for a methyl group.
28. (New) A compound according to claim 1, in which R^{1a} and R^{1b} together stand for a trimethylene group.
29. (New) A compound according to claim 1, in which R⁶ and R⁷ together mean an oxygen atom to provide an epoxide ring.
30. (New) A compound according to claim 25, in which R⁶ and R⁷ together mean an oxygen atom to provide an epoxide ring.
31. (New) A compound according to claim 26, in which R⁶ and R⁷ together mean an oxygen atom to provide an epoxide ring.
32. (New) A compound according to claim 27, in which R⁶ and R⁷ together mean an oxygen atom to provide an epoxide ring.
33. (New) A compound according to claim 28, in which R⁶ and R⁷ together mean an oxygen atom to provide an epoxide ring.